VOLUME



1978-CONTENTS

ANIMAL BEHAVIOUR

EDITORS

OXFORD

R. DAWKINS AND JEANNE ALTMANN

CHICAGO, ILLINOIS

BAILLIÈRE TINDALL . LONDON



CONTENTS OF VOLUME 26	
Contributions	
ALLEN, D. J., see LOCKARD, J. S.	
AL-MALIKI, SAMI, see BRAIN, PAUL F.	
ANDERSON, CLARKE O., see VAITL, ELIZABETH A.	
	70
	70
	20
Archer, J., see Toates, F. M.	
ARNOLD, STEVAN J. Some effects of early experience on feeding responses in the common garter snake, Thamnophis sirtalis	45
BAILEY, KEITH. The structure and variation of the separation call of the bobwhite quail (Lolinus virginianus, Odontophorinae)	29
BAILEY, WINSTON J., see SANDOW, J. D.	
BANKS, EDWIN M., see LANDAUER, MICHAEL R	
BATTY, JENNIFER. Plasma levels of testosterone and male sexual behaviour in strains of the house mouse (Mus musculus)	339
BATTY, JENNIFER. Acute changes in plasma testosterone levels and their relation to measures of sexual behaviour	349
BEKOFF, MARC., see VINCENT, LOUIS E.	
BELL, R. W., see Smotherman, W. P.	
BELOWICH, DAVID L., see Brenner, Fred J.	
Betts, Burr J., see Jenni, Donald A.	
	16:
	32
BOWEN, DONALD W. & BROOKS, RONALD J. Social organization of confined male collared lemmings (Dicrostonyx	120
Brain, Paul F. & Al-Maliki, Sami. A comparison of 'intermale fighting' in 'standard opponent' tests and attack	12
directed towards locusts by 'to' strain mice: Effects of simple experimental manipulations	72
	432
BROOKE, M. DE L. Sexual differences in the voice and individual vocal recognition in the Manx shearwater (Puffinus puffinus)	62
Brooks, Ronald J., see Bowen, Donald W.	
Broom, D. M., see Elwood, R. W.	
BROOM, D. M. & LEAVER, J. D. Effects of group-rearing or partial isolation on later social behaviour of calves 12	255
Brown, Stephen C. & Rosen, Jeffrey S. Tube-cleaning behaviour in the polychaete annelid Chaetopterus variopedatus (Renier)	16
BUIRSKI, PETER, PLUTCHIK, ROBERT & KELLERMAN, HENRY. Sex differences, dominance, and personality in the	
·	12
	85
Burnet, B., see Kyriacou, C. P.	
CANE, VIOLET R. On fitting low-order Markov chains to behaviour sequences	33
CARLSON, ALBERT D., see ZORN, LEROY P. JR	
CARTER, CAROL SUE, see LANDAUER, MICHAEL R.	
CATCHPOLE, CLIVE K. Interspecific territorialism and competition in Acrocephalus warblers as revealed by play- back experiments in areas of sympatry and allopatry	07:
CHENEY, DOROTHY L. Interactions of immature male and female baboons with adult females	389
CHENEY, DOROTHY L. The play partners of immature baboons	03
CHENG, KIMBERLY M., SHOFFNER, ROBERT N., PHILLIPS, RICHARD E. & LEE, FORREST B. Mate preference in wild and domesticated (game farm) mallards (Anas platyrhynchos): I. Initial preference	990
CHERRAS TERRAY ION Simultaneous colour discrimination in chicks is improved by brief exposure to light	-

iii

CLARK, O., see VAITL, ELIZABETH A. Cohen, Jeffrey, see Kubie, John L.

COLLIAS, NICHOLAS E., see JACOBS, CATHERINE H.

ANIMAL BEHAVIOUR, 26

COLLIAS, N. E. & VICTORIA, J. K. Nest and mate selection in the village weaverbird (<i>Ploceus cucullutus</i>)	470
COOVER, G. D., see SMOTHERMAN, W. P. DAVIES, N. B. Territorial defence in the speckled wood butterfly (<i>Pararge aegeria</i>): The resident always wins	138
DAVIES, W. G. Cluster analysis applied to the classification of postures in the Chilean flamingo (<i>Phoenicopterus chilensis</i>)	381
DAVIS, STEPHEN J. & FISCHER, GLORIA J. Chick colour approach preferences are altered by cold stress: Colour	
pecking and approach preferences are the same	259
DIAKOW, CAROL & DEWSBURY, DONALD A. A comparative description of the mating behaviour of female rodents	1091
DORE, F., LEFEBVRE, L. & DUCHARME, R. Threat display in Betta splendens: effects of water condition and type of agonistic stimulation	738
Drewett, R. F. & Trew, A. M. The milk ejection of the rat, as a stimulus and a response to the litter	982
Ducharme, R., see Dore, F.	
DUNBAR, R. I. M. Sexual behaviour and social relationships among Gelada baboons	167
DUNSTONE, NIGEL & SINCLAIR, WILLIAM. Comparative aerial and underwater visual acuity of the mink, Mustela vison Schreber, as a function of discrimination distance and stimulus luminance	6
DUNSTONE, NIGEL & SINCLAIR, WILLIAM. Orienting behaviour during aerial and underwater visual discrimination by the mink (Mustela vison Schreber)	14
EIZENGA, CAREY, see REBERG, DOUGLAS	• • •
ELWOOD, R. W. & BROOM, D. M. The influence of litter size and parental behaviour on the development of Mongo- lian gerbil pups	438
FISCHER, GLORIA J., see DAVIS, STEPHEN J.	
FORD, MICHAEL J. Locomotory activity and the predation strategy of the wolf spider <i>Pardosa amentata</i> (Clerck) (Lycosidae)	31
Fraser, D. Observations of the behavioural development of suckling and early-weaned piglets during the first six weeks after birth	22
Fresneau, D., see Jaisson, P.	
Fuлмото, Jeffrey T., see Jacobs, Catherine H.	
FURNESS, R. W. Kleptoparasitism by great skuas (Catharacta skua Brünn.) and Arctic skuas (Stercorarius parasiticus L.) at a Shetland seabird colony	1167
GAETANO, CHARLES P., see Brenner, Fred J.	
GENTLE, M. J., see WOOD-GUSH, D. G. M.	
GILLETT, SYLVIA D. & GONTA, ELIZABETH. Locust as prey: Factors affecting their vulnerability to predation	282
GOCHFELD, MICHAEL. Incubation behaviour in common terns: Influence of wind speed and direction on orientation of incubating adults	848
Gonta, Elizabeth, see Gillett, Sylvia D.	
GOTTLIEB, GILBERT, See MILLER, DAVID B.	
GRAFEN, ALAN & SIBLY, RICHARD. A model of mate desertion	645
GREENWOOD, PAUL J. & HARVEY, PAUL H. Foraging and territory utilization of blackbirds (<i>Turdus merula</i>) and song thrushes (<i>Turdus philomelos</i>)	1222
HAILMAN, JACK P. & JAEGER, ROBERT G. Phototactic responses of anuran amphibians to monochromatic stimuli of equal quantum intensity	274
HALPERN, MIMI, see KUBIE, JOHN L.	
HARRIS, VALERIE S., see SACHS, BENJAMIN D.	
HARVEY, PAUL H., see GREENWOOD, PAUL J.	
HAYASHI, SUSUMU & KIMURA, TAKEJI. Effects of exposure to males on sexual preference in female mice	290
HERSHBERGER, W. A., see SMOTHERMAN, W. P.	
Howse, P. E., see Longhurst, C.	
HUBER, FRANZ. The insect nervous system and insect behaviour	969
HULL, DAVID L. Altruism in science: A sociobiological model of co-operative behaviour among scientists	685
INGLE, DAVID & MCKINLEY, DAVID. Effects of stimulus configuration on elicited prey catching in the marine toad (Bufo marinus)	303
	885
INGLIS, I. R. & ISAACSON, A. J. The responses of dark-bellied brent geese to models of geese in various postures	885 953

CONTENTS

Isaacson, A. J., see Inglis, I. R.	
JACOBS, CATHERINE H., COLLIAS, NICHOLAS E. & FUJIMOTO, JEFFREY T. Nest colour as a factor in nest selection by female village weaverbirds	463
JACOBS, GERALD H. Spectral sensitivity and colour vision in the ground-dwelling sciurids: results from goldenmantled ground squirrels and comparisons for five species	409
Jacobson, Stewart, see Winston, Mark L. Jaeger, Robert G., see Hailman, Jack P.	
JAISSON, P. & FRESNEAU, D. The sensitivity and responsiveness of ants to their cocoons in relation to age and	
methods of measurements	1064
JENKINS, P. F. Cultural transmission of song patterns and dialect development in a free-living bird population	50
JENNI, DONALD A. & BETTS, BURR J. Sex differences in nest construction, incubation, and parental behaviour in the polyandrous American jaçana (<i>Jacana spinosa</i>)	207
JENSSEN, THOMAS A., see ROTHBLUM, LINDA	
KEENLEYSIDE, MILES H. A., see SMITH-GRAYTON, PATRICIA K.	
KELLERMAN, HENRY, see BUIRSKI, PETER	
KENWARD, R. E. & SIBLY, R. M. Woodpigeon feeding behaviour at brassica sites. A field and laboratory investigation of woodpigeon feeding behaviour during adoption and maintenance of a brassica diet	778
KEVERNE, E. B., LEONARD R. A., SCRUTON, D. M. & YOUNG, S. K. Visual monitoring in social groups of Talapoin monkeys (Miopithecus talapoin)	933
Kimura, Takeji, see Hayashi, Susumu	
KIRKPATRICK, R. L., see WARREN, R. J.	
Kodric-Brown, Astrid. Establishment and defence of breeding territories in a pupfish (Cyprinodontidae: Cyprinodon)	818
Krebs, John, see Andersson, Malte	
Kubie, John L., Cohen, Jeffrey & Halpern, Mimi. Shedding enhances the sexual attractiveness of oestradiol treated garter snakes and their untreated penmates	562
KYRIACOU, C. P., BURNET, B. & CONNOLLY, K. The behavioural basis of overdominance in competitive mating success at the <i>ebony</i> locus of <i>Drosophila melanogaster</i>	1195
LANDAUER, MICHAEL R., BANKS, EDWIN M. & CARTER, CAROL Sue. Sexual and olfactory preferences of naive and experienced male hamsters	611
	1237
Leaver, J. D., see Broom, D. M.	
Lee, Forrest B., see Cheng, Kimberley M. Lefebyre, L., see Dore, F.	
LEFFEBVRE, L., see DORE, P. LEHNER, PHILIP N., see WELLS, MICHAEL C.	
LEHNER, PHILIP N. Coyote vocalizations: A lexicon and comparisons with other canids	712
LEONARD, R. A., see KEVERNE, E. B.	
LOCKARD, J. S., ALLEN, D. J., SCHIELE, B. J. & WIEMAR, M. J. Human postural signals: Stance, weight-shifts and social distance as intention movements to depart	219
Longhurst, C. & Howse, P. E. The use of kairomones by Megaponera foetens (Fab.) (Hymenoptera: Formicidae)	1213
Lynch, Carol Becker & Possidente, Bernard P. Jr. Relationships of maternal nesting to thermoregulatory nesting in house mice (<i>Mus musculus</i>) at warm and cold temperatures	1136
MACNAIR, M. R., see PARKER, G. A.	
MACNAIR, M. R. & PARKER, G. A. Models of parent-offspring conflict, II. Promiscuity	111
McFarland, David, see Larkin, Stephen McKinley, David, see Ingle, David	
MAJOR, PETER F. Predator-prey interactions in two schooling fishes, Caranx ignobilis and Stolephorus purpureus	760
Mann, Barbara, see Reberg, Douglas	
MASON, WILLIAM A., see VAITL, ELIZABETH A.	
MAUSER, STEVE W., see BRENNER, FRED J.	
, , , , , , , , , , , , , , , , , , , ,	1178
MIRENDA, JOHN, see TOPOFF, HOWARD	
MONTGOMERY, W. I. Intra- and interspecific interactions of Apodemus sylvaticus (L.) and A. flavicollis (Melchoir) under laboratory conditions	1247
Morrison, Douglas W. Lunar phobia in a neotropical ruit bat, Artibeus jamaicensis (Chiroptera: Phyllostomidae)	852
MÜLLER-SCHWARZE, D., see VOLKMAN, N. J.	
MURPHY, LINDA B. The practical problems of recognizing and measuring fear and exploration behaviour in the	455
domestic fowl	422
NASH, LEANNE T. The development of the mother-infant relationship in wild baboons (Papio anubis)	746

ANIMAL BEHAVIOUR, 26

O'CONNOR, RAYMOND J. Brood reduction in birds: selection for fratricide, infanticide and suicide? PARKER, G. A., see MACNAIR, M. R.	79
PARKER, G. A. & MACNAIR, M. R. Models of parent-offspring conflict. I. Monogamy PAWLUKIEWICZ, JANET, see SMITH, W. JOHN	97
Perron, F. E. Locomotion and shell-righting behaviour in adult and juvenile Aporrhais occidentalis (Gastropoda:	
Strombacea)	1023
Petersen, Stewart. Effects of testosterone upon feeding in male mice	945
PHILLIPS, RICHARD E., see CHENG, KIMBERLY M.	
PLATT, STEVE ANDERSON. A re-examination of animal tropisms	1029
PLUTCHIK, ROBERT, see BUIRSKI, PETER	
Pola, Yvonne V., see Snowdon, Charles T.	
POOLE, TREVOR B. An analysis of social play in polecats (Mustelidae) with comments on the form and evolutionary history of the open mouth play face	36
Possidente, Bernard P. Jr, see Lynch, Carol Becker	
Preston, J. Lynn. Communication systems and social interactions in a goby-shrimp symbiosis	791
Purton, A. C. Ethological categories of behaviour and some consequences of their conflation	653
Pyke, Graham H. Are animals efficient harvesters?	241
REBACH, STEVE. The role of celestial cues in short range migrations of the hermit crab, Pagurus longicarpus	835
REBERG, DOUGLAS, INNIS, NANCY K., MANN, BARBARA & EIZENGA, CAREY. 'Superstitious' behaviour resulting	507
from periodic response-independent presentations of food or water	507
RIDLEY, MARK. Paternal care	904
RICE, JAKE C. Behavioural interactions of interspecifically territorial vireos. I. Song discrimination and natural interactions	527
RICE, JAKE C. Behavioural interactions of interspecifically territorial vireos. II. Seasonal variation in response	
intensity	550
ROHWER, FRANK C., see ROHWER, SIEVERT	4040
ROHWER, SIEVERT & ROHWER, FRANK C. Status signalling in Harris sparrows: Experimental deceptions achieved	1012
ROPER, T. J. The effect of food deprivation on drinking and running in Mongolian gerbils	1264
ROSEN, JEFFREY S., see Brown, Stephen C.	
ROTHBLUM, LINDA & JENSSEN, THOMAS A. Display repertoire analysis of Sceloporus undulatus hyacinthinus (Sauria: Iguanidae) from south-western Virginia	120
ROTHSTEIN, STEPHEN I. Mechanisms of avian egg-recognition: Additional evidence for learned components	130 671
RUSSOCK, H. I. & Schein, M. W. Effect of socialization on adult social preferences in <i>Tilapia mossambica</i> (Sarotherodon mossambicus); Pisces: Cichiidae	148
RUTOWSKI, RONALD L. The courtship behaviour of the small sulphur butterfly, Eurema lisa (Lepidoptera: Pieridae)	892
SACHS, BENJAMIN D. & HARRIS, VALERIE S. Sex differences and developmental changes in selected juvenile activities (play) of domestic lambs	678
SANDOW, J. D. & BAILEY, WINSTON J. An experimental study of defensive stridulation in <i>Mygalopsis ferruginea</i> Redtenbacher (Orthoptera: Tittigoniidae)	1004
SCANLON, P. F., see WARREN, R. J.	1004
SCHEIN, M. W., see RUSSOCK, H. I.	
SCHELE, B. J., see LOCKARD, J. S.	
SCHMIDT-KOENIG, KLAUS & WALCOTT, CHARLES. Tracks of pigeons homing with frosted lenses	480
Scruton, D. M., see Keverne, E. B.	400
Shalter, Michael D. Effect of spatial context on the mobbing reaction of pied flycatchers to a predator model	1219
Shoffner, Robert N., see Cheng, Kimberly M.	1219
Sibly, Richard, see Grafen, Alan	
Sibly, R. M., see Kenward, R.E.	
SILVERMAN, HAROLD I. Effects of different levels of sensory contact upon reproductive activity of adult male and	
female Sarotherodon (Tilapia) mossambicus (Peters); Pisces: Cichlidae	1081
SILVERMAN, HAROLD I. The effect of visual social stimulation upon age at first spawning in the mouth-brooding cichlid fish Sarotherodon (Tilapia) mossambicus (Peters)	1120
Sinclair, William, see Dunstone, Nigel	
SMITH, Andrew P. An investigation of the mechanisms underlying nest construction in the mud wasp <i>Paralastor</i> sp. (Hymenoptera: Eumenidae)	232
SMITH, SUSAN T., see SMITH, W. JOHN	
SMITH, SUSAN M. Predator behaviour of young great kiskadees (Pitangus sulphuratus)	988
SMITH, W. JOHN, PAWLUKIEWICZ, JANET & SMITH, SUSAN T. Kinds of activities correlated with singing patterns of the yellow-throated vireo	862
SMITH-GRAYTON, PATRICIA & KEENLEYSIDE, MILES H. A. Male-female parental roles in <i>Herotilapia multispinosa</i> (Pisces: Cichlidae)	520

CONTENTS

SMOTHERMAN, W. P., BELL, R. W., HERSHBERGER, W. A. & COOVER, G. D. Orientation to rat pup cues: Effects of maternal experiential history	265
SNODDERLY, D. Max, Jr. Eggshell removal by the laughing gull (Larus atricilla): Normative data and visual preference behaviour	487
SNOWDON, CHARLES T. & POLA, YVONNE V. Interspecific and intraspecific responses to synthesized pygmy marmosel vocalizations	
STALLCUP, JERRE ANN & WOOLFENDEN, GLEN E. Family status and contributions to breeding by Florida scrub jays	
TAUB, DAVID M., see VAITL, ELIZABETH A.	1144
TOATES, F. M. & ARCHER, J. A comparative review of motivational systems using classical control theory	368
Topoff, Howard & Mirenda, John. Precocial behaviour of callow workers of the army ant Neivamyrmex nigrescens: importance of stimulation by adults during mass recruitment	698
TREISMAN, MICHEL. Bird song dialects, repertoire size, and kin association	814
Trew, A. M., see Drewett, R. F.	014
VAITL, ELIZABETH A., MASON, WILLIAM A., TAUR, DAVID M. & ANDERSON, CLARK O. Contrasting effects of living in heterosexual pairs and mixed groups on the structure of social attraction in squirrel monkeys (Saimiri).	358
VICTORIA, J. K., see COLLIAS, N. E.	
VINCENT, LOUIS E. & BEKOFF, MARC. Quantitative analyses of the ontogeny of predatory behaviour in coyotes Canis latrans	225
Vogelsang, R. W., see Warren, R. J.	
VOLKMAN, N. J., ZEMANEK, K. F. & MÜLLER-SCHWARZE, D. Antorbital and forehead secretions of black-tailed dee (Odocoileus hemionus columbianus): Their role in age-class recognition	1098
WALCOTT, CHARLES, see SCHMIDT-KOENIG, KLAUS	1070
WARREN, R. J., VOGELSANG, R. W., KIRKPATRICK, R. L. & SCANLON, P. F. Reproductive behaviour of captive	
white-tailed deer	. 179
Wells, Kentwood D. Territoriality in the green frog (Rana clamitans): vocalizations and agonistic behaviour. Wells, Michael C. & Lehner, Philip N. The relative importance of the distance senses in coyote predato	r
behaviour	251
WIEMAR, M. J., see LOCKARD, J. S.	571
WIKLUND, CHRISTER G., see ANDERSSON, MALTE	
WINSTON, MARK L. & JACOBSON, STEWART. Dominance and effects of strange conspecifics on aggressive interaction in the hermit crab Pagurus longicarpus (Say)	184
WODINSKY, JEROME. Feeding behaviour of broody female Octopus vulgaris	803
WOOD-GUSH, D. G. M. & GENTLE, M. J. The hyperstriatum and nesting behaviour in the domestic hen	1157
Woolfenden, Glen E., see Stallcup, Jerre Ann	
Young, S. K., see Keverne, E. B.	
ZACK, SHELDON. Head grooming behaviour in the praying mantis	. 1107
ZORN, LEROY P. JR & CARLSON, ALBERT D. Effect of mating on response of female <i>Photuris</i> firefly	843
Short Communications	
CASTERLIN, MARTHA E., see REYNOLDS, WILLIAM W.	
CHENEY, CARL D., see OBERDIECK, FERNANDO	
COLLIAS, ELSIE C., see COLLIAS, NICHOLAS E.	
COLLIAS, NICHOLAS E. & COLLIAS, ELSIE C. Group territory, dominance, co-operative breeding in birds, and a	
new factor	308
Druggy Dover A What is (was ?) the 'Eived Action Pattern'?	310
ERICKSON, CARL J. & ZENONE, PATRICIA G. Aggressive courtship as a means of avoiding cuckoldry	307
ERNST, ULRICH, see Curio, Eberhard	307
FAGEN, ROBERT M. Author's reply to critique	310
FAGEN, ROBERT M. Author's reply to Partridge and Nunney critique of 'Three-generation family conflict'	960
FAGEN, ROBERT M. Behavioural catalogue acquisition and completeness: Validation of logarithmic regression	
and curve-fitting methods	. 961
FICKEN, MILLICENT S., HAILMAN, JACK P. & FICKEN, ROBERT W. A model of repetitive behaviour illustrated by chickadee calling	630
FICKEN, ROBERT W., see FICKEN, MILLICENT S.	
GOTTLIER, GILBERT, see SCOVILLE, RICHARD	

ANIMAL BEHAVIOUR, 26

HAILMAN, JACK P., see FICKEN, MILLICENT S.							
HALLIDAY, TIMOTHY & HOUSTON, ALASDAIR. The newt as an h							1273
HAZLETT, BRIAN A. Shell exchanges in hermit crabs: Aggressio	n, negoti	iation, e	or both?				1278
HOUSTON, ALASDAIR, see HALLIDAY, TIMOTHY							
Johnson, Charles, see Oberdieck, Fernando							
JOHNSON, CHARLES W., see OBERDIECK, FERNANDO							
KEENER, DAVID, see POLLAK, EDWARD I.							
Krebs, John R., see Partridge, Brian							
Krebs, John. Beau Geste and Song Repetition: a reply to Slater	r						304
MAYNARD SMITH, J. In defence of models		• •	• •	••			632
MURPHY, MICHAEL R. Oestrous Turkish hamsters display lor specific males	dosis tov	ward co	onspecific i	nales but	attack h	etero-	311
OBERDIECK, FERNANDO, CHENEY, CARL D. & JOHNSON, CHARLE					flict mod	lel ···	309
OBERDIECK, FERNANDO & JOHNSON, CHARLES W. An evaluation							631
OSTROWSKI, ANTHONY C., see REYNOLDS, WILLIAM W.			5 111000	or serial	ai Stiate	,103	051
PARTRIDGE, BRIAN & KREBS, JOHN R. Tree frog choruses: A m	ixed evo	lutiona	rily stable	strategy?			959
POLLACK, EDWARD I., THOMPSON, THERESA & KEENER, DAVID					blue go	urami	,,,
(Trichogaster trichopterus)							1275
RECHTEN, CATHERINE. Interspecific mimicry in birdsong: Does t	he Beau	Geste h	ypothesis	apply?			305
REYNOLDS, WILLIAM W., OSTROWSKI, ANTHONY C. & CASTERLII	N, MART	HA E. F	ishes as ex	periment	al subjec	ets for	
studies of vertebrate colour vision			• •				306
ROPER, T. J. A possible function for time-sharing							1277
SCOVILLE, RICHARD & GOTTLIEB, GILBERT. The calculation of r	epetition	rate in	avian voc	alizations			962
SILVERMAN, A. P. Rodents' defence against cigarette smoke	• •	• •					1279
SLATER, P. J. B. Beau Geste has problems	• •	• •	• •	• •			304
THOMPSON, THERESA, see POLLACK, EDWARD I							
TOATES, F. M. A circadian rhythm of hoarding in the hamster			• •	• •			631
Ward, P. Formation-flying of birds as advertisement behaviour			• •	• •	• •		1273
ZENONE, PATRICIA G., see ERICKSON, CARL J.							
Societies							
Association for the Study of Animal Behaviour	• •	• •			634	, 964 &	1282
Book Reviews							
CRANE, JOCELYN. Fiddler Crabs of the World, Ocypodidae: Gent	us Uca						1285
DAWKINS, RICHARD. The Selfish Gene				••		316 &	635
FESSARD, A. Electroreceptors and Other Specialized Receptor	s in Lo	wer Ve	rtebrates:	Handboo	k of Se	nsory	
Physiology III/3							1284
GOULD, STEPHEN JAY. Ontogeny and Phylogeny	:-			• •			637
HAHN, MARTIN E. & SIMMEL, EDWARD C. Communicative Beha							314
Heiligenberg, W. Principles of Electrolocation and Jamming					es in Bra	ain	1004
Function, Vol. I		• •	• •	••		• •	1284
Kurland, J. A. Kin Selection in the Japanese Monkey Masterton, R. B., Bitterman, M. E., Campbell, C. B. G. &	HOTTON	N E	valution o	F Droin o	nd Dobo		966
in Vertebrates CAMPBELL, C. B. G. &	HOTTON	, IV. E	volution o	Diam a	nu bena	viour	315
MASTERTON, R. B., HODOS, W. & JERISON H. Evolution of Brain				Problem			315
MOYER, KENNETH EVAN. Physiology of Aggression and Implicat							966
NICKEL, R., SCHUMMER, A., SEIFERLE, E., SILLER, W. G. & WIGH				e Domest	ic Birds		638
RACHLIN, H. Behaviour and Learning							313
SARGENT, THEODORE D. Legion of Night: The Underwing Moths						••	318
SCHUIF, A. & HAWKINS, A. D. Sound Reception in Fish				••		• • •	636
Sebeok, T. A. How Animals Communicate							1284
SHOREY, H. H. Animal Communication by Pheromones							315
Symons, Donald. Play and Aggression: A Study of Rhesus Mo							966
THIESSEN, D. D. The Evolution and Chemistry of Aggression				111		••	313
	,			••	••	• •	
Rooke Received							630

© This journal is copyright. Applications to reproduce any part of its contents should be addressed to the publishers, Baillière Tindall (A division of Cassell & Collier Macmillan Publishers Ltd.), 35 Red Lion Square, London WC1R 4SG.

